



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EGW-2-LED-10L-DA-S-50-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3608

[TESTLAB] TUV SUD America

[TESTDATE] 12/10/2018 8:14:54 AM

[ISSUEDATE] 03/11/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] EGW-2-LED-10L-DA-S-50-80

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10379
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15463	13214	13287
55	13800	11181	11055
65	11841	8765	8486
75	9514	6242	5856
85	6798	3652	2818

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	3527	3527	3527	3527	3527	3527	3527	3527	3527	3527
2.5	3525	3526	3525	3519	3527	3519	3525	3526	3525	3526
5.0	3514	3515	3516	3510	3517	3510	3516	3515	3514	3515
7.5	3497	3497	3499	3495	3501	3495	3499	3497	3497	3497
10.0	3472	3472	3475	3471	3476	3471	3475	3472	3472	3472
12.5	3439	3440	3443	3439	3444	3439	3443	3440	3439	3440
15.0	3399	3400	3403	3400	3404	3400	3403	3400	3399	3400
17.5	3354	3354	3358	3354	3359	3354	3358	3354	3354	3354
20.0	3300	3301	3305	3301	3305	3301	3305	3301	3300	3301
22.5	3238	3240	3244	3238	3242	3238	3244	3240	3238	3240
25.0	3170	3172	3175	3167	3170	3167	3175	3172	3170	3172
27.5	3094	3095	3097	3087	3091	3087	3097	3095	3094	3095
30.0	3011	3011	3011	3000	3001	3000	3011	3011	3011	3011
32.5	2922	2921	2918	2907	2909	2907	2918	2921	2922	2921
35.0	2826	2823	2816	2807	2808	2807	2816	2823	2826	2823
37.5	2723	2719	2710	2698	2698	2698	2710	2719	2723	2719
40.0	2610	2607	2594	2585	2581	2585	2594	2607	2610	2607
42.5	2493	2489	2473	2461	2456	2461	2473	2489	2493	2489
45.0	2369	2364	2346	2331	2324	2331	2346	2364	2369	2364
47.5	2241	2234	2212	2195	2185	2195	2212	2234	2241	2234
50.0	2106	2098	2075	2053	2041	2053	2075	2098	2106	2098
52.5	1964	1956	1933	1909	1887	1909	1933	1956	1964	1956
55.0	1819	1812	1789	1758	1735	1758	1789	1812	1819	1812
57.5	1676	1664	1641	1606	1580	1606	1641	1664	1676	1664
60.0	1537	1521	1493	1457	1427	1457	1493	1521	1537	1521
62.5	1400	1383	1347	1310	1280	1310	1347	1383	1400	1383
65.0	1260	1248	1206	1166	1139	1166	1206	1248	1260	1248
67.5	1123	1112	1071	1027	1002	1027	1071	1112	1123	1112
70.0	990	977	936	892	866	892	936	977	990	977
72.5	861	848	808	765	746	765	808	848	861	848
75.0	740	730	693	648	629	648	693	730	740	730
77.5	624	619	582	537	519	537	582	619	624	619
80.0	518	513	479	430	410	430	479	513	518	513
82.5	414	413	383	333	309	333	383	413	414	413
85.0	318	320	296	248	218	248	296	320	318	320
87.5	236	240	222	180	145	180	222	240	236	240
90.0	173	176	162	130	105	130	162	176	173	176
92.5	125	129	118	96	88	96	118	129	125	129
95.0	93	96	87	76	81	76	87	96	93	96
97.5	70	72	67	66	81	66	67	72	70	72
100.0	54	56	53	62	82	62	53	56	54	56
102.5	44	45	45	60	83	60	45	45	44	45
105.0	37	37	40	58	81	58	40	37	37	37
107.5	32	32	36	55	76	55	36	32	32	32
110.0	29	29	33	52	69	52	33	29	29	29
112.5	26	26	31	48	62	48	31	26	26	26
115.0	24	23	28	43	55	43	28	23	24	23
117.5	22	21	25	37	48	37	25	21	22	21
120.0	19	18	22	33	41	33	22	18	19	18
122.5	17	15	19	28	35	28	19	15	17	15
125.0	15	13	16	24	30	24	16	13	15	13
127.5	13	11	13	21	25	21	13	11	13	11
130.0	11	9	10	18	22	18	10	9	11	9
132.5	10	7	7	15	18	15	7	7	10	7

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CANDELA TABULATION - (Cont.)

135.0	8	6	6	13	15	13	6	6	8	6
137.5	7	5	5	11	13	11	5	5	7	5
140.0	5	4	5	9	11	9	5	4	5	4
142.5	4	4	5	8	10	8	5	4	4	4
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	3527	3527	3527	3527	3527	3527	3527
2.5	3525	3519	3527	3519	3525	3526	3525
5.0	3516	3510	3517	3510	3516	3515	3514
7.5	3499	3495	3501	3495	3499	3497	3497
10.0	3475	3471	3476	3471	3475	3472	3472
12.5	3443	3439	3444	3439	3443	3440	3439
15.0	3403	3400	3404	3400	3403	3400	3399
17.5	3358	3354	3359	3354	3358	3354	3354
20.0	3305	3301	3305	3301	3305	3301	3300
22.5	3244	3238	3242	3238	3244	3240	3238
25.0	3175	3167	3170	3167	3175	3172	3170
27.5	3097	3087	3091	3087	3097	3095	3094
30.0	3011	3000	3001	3000	3011	3011	3011
32.5	2918	2907	2909	2907	2918	2921	2922
35.0	2816	2807	2808	2807	2816	2823	2826
37.5	2710	2698	2698	2698	2710	2719	2723
40.0	2594	2585	2581	2585	2594	2607	2610
42.5	2473	2461	2456	2461	2473	2489	2493
45.0	2346	2331	2324	2331	2346	2364	2369
47.5	2212	2195	2185	2195	2212	2234	2241
50.0	2075	2053	2041	2053	2075	2098	2106
52.5	1933	1909	1887	1909	1933	1956	1964
55.0	1789	1758	1735	1758	1789	1812	1819
57.5	1641	1606	1580	1606	1641	1664	1676
60.0	1493	1457	1427	1457	1493	1521	1537
62.5	1347	1310	1280	1310	1347	1383	1400
65.0	1206	1166	1139	1166	1206	1248	1260
67.5	1071	1027	1002	1027	1071	1112	1123
70.0	936	892	866	892	936	977	990
72.5	808	765	746	765	808	848	861
75.0	693	648	629	648	693	730	740
77.5	582	537	519	537	582	619	624
80.0	479	430	410	430	479	513	518

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82.5	383	333	309	333	383	413	414
85.0	296	248	218	248	296	320	318
87.5	222	180	145	180	222	240	236
90.0	162	130	105	130	162	176	173
92.5	118	96	88	96	118	129	125
95.0	87	76	81	76	87	96	93
97.5	67	66	81	66	67	72	70
100.0	53	62	82	62	53	56	54
102.5	45	60	83	60	45	45	44
105.0	40	58	81	58	40	37	37
107.5	36	55	76	55	36	32	32
110.0	33	52	69	52	33	29	29
112.5	31	48	62	48	31	26	26
115.0	28	43	55	43	28	23	24
117.5	25	37	48	37	25	21	22
120.0	22	33	41	33	22	18	19
122.5	19	28	35	28	19	15	17
125.0	16	24	30	24	16	13	15
127.5	13	21	25	21	13	11	13
130.0	10	18	22	18	10	9	11
132.5	7	15	18	15	7	7	10
135.0	6	13	15	13	6	6	8
137.5	5	11	13	11	5	5	7
140.0	5	9	11	9	5	4	5
142.5	5	8	10	8	5	4	4
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1294.43	N.A.	12.50
0-30	2755.29	N.A.	26.50
0-40	4515.76	N.A.	43.50
0-60	7918.78	N.A.	76.30
0-80	9845.63	N.A.	94.90
0-90	10165.8	N.A.	97.90
10-90	9831.66	N.A.	94.70
20-40	3221.33	N.A.	31.00
20-50	5029.94	N.A.	48.50
40-70	4597.79	N.A.	44.30
60-80	1926.85	N.A.	18.60
70-80	732.08	N.A.	7.10
80-90	320.17	N.A.	3.10
90-110	154.34	N.A.	1.50
90-120	187.53	N.A.	1.80
90-130	204.78	N.A.	2.00
90-150	213.68	N.A.	2.10
90-180	213.68	N.A.	2.10
110-180	59.34	N.A.	0.60
0-180	10379.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	334.15
10-20	960.28
20-30	1460.86
30-40	1760.47
40-50	1808.61
50-60	1594.41
60-70	1194.77
70-80	732.08
80-90	320.17
90-100	102.33
100-110	52.01
110-120	33.19
120-130	17.25
130-140	7.34
140-150	1.56
150-160	0.00
160-170	0.00
170-180	0.00

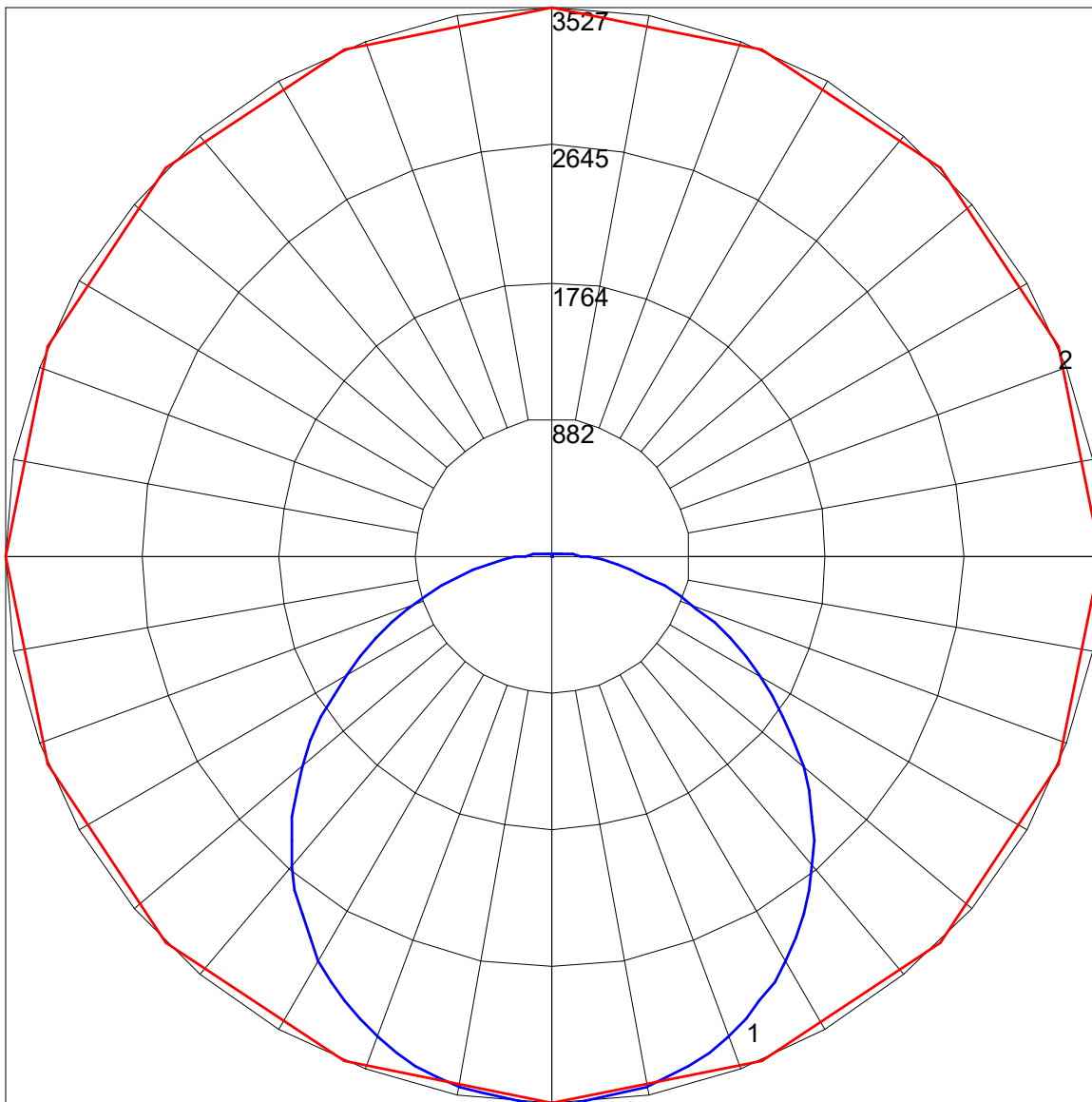
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	93	96	92	89	91	89	86	87	85	83	81
2	98	89	83	77	95	87	81	76	83	78	73	80	75	71	77	73	70	67
3	89	79	70	64	87	77	69	63	74	67	62	70	65	60	68	63	59	57
4	82	70	61	54	79	68	60	53	65	58	52	63	57	51	60	55	51	48
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 3527 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)